

**TRUMPower**

200 WATT POWER FACTOR CORRECTED SUPPLIES

DESCRIPTION

The PFC200 series comprises single and multiple output models for 200 watts of continuous output power. All models have a power factor better than 0.95, and have the same mechanical dimensions and output pinning as their corresponding PU200 series models. All auxiliary outputs are with magnetic amplifier to keep regulation. The units are constructed on a printed circuit board with a U-bracket for mechanical support and heat sinking. Both "B" and "C" versions are with UL, CSA and TÜV approvals.

FEATURES

- Power Factor 0.98 typical
- 90 VAC to 264 VAC universal input
- In compliance with EN 55024, EN 61000-3-2 and EN 61000-3-3
- Overvoltage protection
- Short-circuit protection
- Power Fail Detect (PFD) signal
- 100% burn-in at full rated load
- Remote sense on single output models

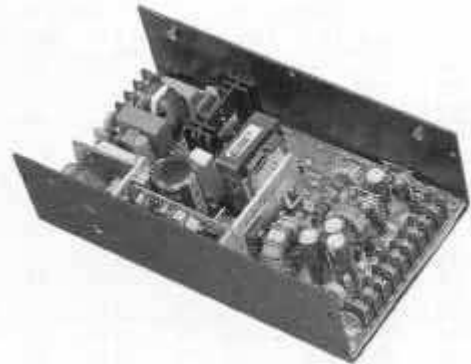
INPUT SPECIFICATIONS

Input voltage: 90 to 264 VAC
Input frequency: 47 to 63 Hz
Input current: 3.6A (rms) for 115VAC
1.8A (rms) for 230VAC
Leakage current: 0.4mA max. @115VAC, 60Hz
0.8mA max. @230VAC, 50Hz

OUTPUT SPECIFICATIONS

Output voltage/current : See rating chart
Total output power: 200 watts maximum
Ripple and noise : 2% peak to peak maximum
Overvoltage protection : Provided on output #1 only; set at 112 - 132 % of its nominal output voltage
Overcurrent protection: All outputs protected to short circuit conditions
Temperature coefficient: All outputs +/-0.04%/ °C maximum
Transient response : Maximum excursion of 4% or better on all models; recovering to 1% of final value within 500us after a 25% step load change
PFD signal : TTL logic high for normal operation and TTL logic low upon loss of input power. This signal appears at least 1 ms prior to master output dropping 5% below its nominal value. This signal also provides a minimum delay of 100 ms after master output is within regulation.

PFC200 SERIES **CE** (LVD + EMC)



Safety Standard Approvals:



UL 1950
File No. E137410



C22.2 No. 950
Certificate No. LR93632(157810)



EN 60950
Certificate No. R9955628

ENVIRONMENTAL SPECIFICATIONS

Operating temperature: 0°C to +70°C
Storage temperature: -40°C to +85°C
Relative humidity: 5% to 95% non-condensing
Derating: Derate from 100% at +50 °C linearly to 50% at +70 °C
Cooling: 25 CFM forced air, provided on "C" version, to be provided for "B" version by user

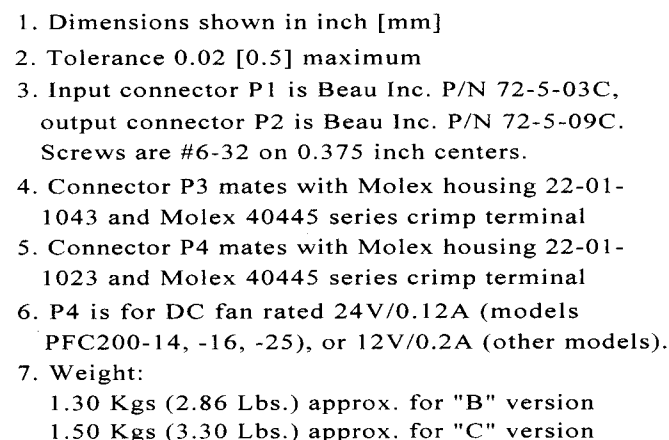
GENERAL SPECIFICATIONS

Switching frequency: 94KHz +/-10KHz
Power factor: 0.98 typical
Efficiency : 70% minimum on all models
Hold-up time : 12 msec minimum at 110VAC
Line regulation : +/-0.5% maximum at full load
Inrush current : 20 amps @ 115VAC, or 40 amps @ 230VAC, at 25 °C cold start
Withstand voltage : 3000VAC from input to output
1500VAC from input to ground
500VAC from output to ground
MTBF : 300,000 hours minimum at full load at 25°C ambient, calculated per MIL-HDBK-217F
EMI requirements : In compliance with
(a) FCC Level B
(b) EN 55022 Class B
Safety requirements : Meets or exceeds:
(a) UL 1950
(b) CSA C22.2 No. 950
(c) IEC 950 (EN 60950)

PFC200 SERIES

(1)(5) Model	Output #1				Output #2(2)				Output #3				Output #4 (3)				Maximum Output Power (4)
	Vnom.	Imin.	Imax.	Tol.	Vnom.	Imin.	Imax.	Tol.	Vnom.	Imin.	Imax.	Tol.	Vnom.	Imin.	Imax.	Tol.	
PFC200-10	5V	3.0A	40A	2%	(N/A)				(N/A)				(N/A)				200W
PFC200-12	12V	1.2A	16.7A	2%	(N/A)				(N/A)				(N/A)				200W
PFC200-13	15V	1.0A	13.4A	2%	(N/A)				(N/A)				(N/A)				200W
PFC200-14	24V	0.6A	8.4A	2%	(N/A)				(N/A)				(N/A)				200W
PFC200-16	30V	0.5A	6.7A	2%	(N/A)				(N/A)				(N/A)				200W
PFC200-18	48V	0.5A	4.2A	2%	(N/A)				(N/A)				(N/A)				200W
PFC200-23	+5V	3.0A	30A	2%	+12V	0A	8A	4%	(N/A)				(N/A)				200W
PFC200-24	+5V	3.0A	30A	2%	+15V	0A	6A	4%	(N/A)				(N/A)				200W
PFC200-25	+5V	3.0A	30A	2%	+24V	0A	4A	4%	(N/A)				(N/A)				200W
PFC200-30	+5V	3.0A	30A	2%	+12V	0A	8A	4%	-5V	0A	6A	4%	(N/A)				200W
PFC200-31	+5V	3.0A	30A	2%	+12V	0A	8A	4%	-12V	0A	4A	4%	(N/A)				200W
PFC200-32	+5V	3.0A	30A	2%	+15V	0A	6A	4%	-15V	0A	4A	4%	(N/A)				200W
PFC200-33	+5V	3.0A	30A	2%	+15V	0A	6A	4%	-12V	0A	4A	4%	(N/A)				200W
PFC200-40	+5V	3.0A	30A	2%	+12V	0A	8A	4%	-12V	0A	4A	4%	5V	0A	6A	4%	200W
PFC200-41	+5V	3.0A	30A	2%	+15V	0A	6A	4%	-15V	0A	4A	4%	24V	0A	4A	4%	200W
PFC200-42	+5V	3.0A	30A	2%	+12V	0A	8A	4%	-12V	0A	4A	4%	12V	0A	4A	4%	200W
PFC200-44	+5V	3.0A	30A	2%	+12V	0A	8A	4%	-15V	0A	4A	4%	15V	0A	4A	4%	200W
PFC200-45	+5V	3.0A	30A	2%	+12V	0A	8A	4%	-12V	0A	4A	4%	24V	0A	4A	4%	200W

MECHANICAL SPECIFICATIONS



CONN PIN MODEL		P1			P2						P3			
		1	2	3	1,2	3,4,5	6	7	8	9	1	2	3	4
PFC200-10 PFC200-13 PFC200-16	PFC200-12 PFC200-14 PFC200-18	AC LIVE	AC NEUTRAL	AC GROUND	-SENSE	RET.	OUTPUT #1	OUTPUT #1	OUTPUT #1	+SENSE	FAN	COM. RET.	COM. RET.	PFD
PFC200-23 PFC200-25	PFC200-24 PFC200-25	AC LIVE	AC NEUTRAL	AC GROUND	OUTPUT #1	COM. RET.	OUTPUT #2	N.C.	N.C.	N.C.	FAN	COM. RET.	COM. RET.	PFD
PFC200-30 PFC200-32	PFC200-31 PFC200-33	AC LIVE	AC NEUTRAL	AC GROUND	OUTPUT #1	COM. RET.	OUTPUT #2	OUTPUT #3	N.C.	N.C.	FAN	COM. RET.	COM. RET.	PFD
PFC200-40 PFC200-42 PFC200-45	PFC200-41 PFC200-44	AC LIVE	AC NEUTRAL	AC GROUND	OUTPUT #1	COM. RET.	OUTPUT #2	OUTPUT #3	OUTPUT #4 RETURN	OUTPUT #4	FAN	COM. RET.	COM. RET.	PFD